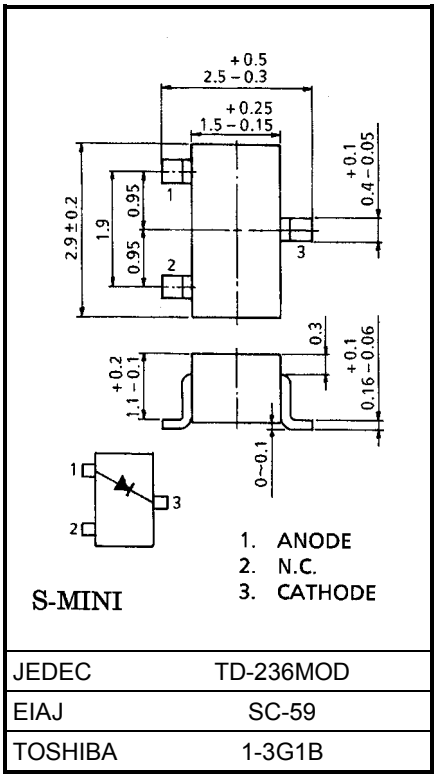
TOSHIBA Diode Silicon Epitaxial Schottky Barrier Type

1SS348

Low Voltage High Speed Switching

Unit: mm

- Low forward voltage : $V_{F\ (3)}$ = 0.56V (typ.)
- Low reverse current : I_R = 5μA (max)
- Small package : SC-59



JEDEC	TD-236MOD
EIAJ	SC-59
TOSHIBA	1-3G1B

Weight: 0.012g

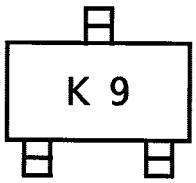
Maximum Ratings (Ta = 25°C)

Characteristic	Symbol	Rating	Unit
Maximum (peak) reverse voltage	V_{RM}	85	V
Reverse voltage	V_R	80	V
Maximum (peak) forward current	I_{FM}	300	mA
Average forward current	I_O	100	mA
Power dissipation	P	200	mW
Junction temperature	T_j	125	°C
Storage temperature	T_{stg}	−55~125	°C
Operating Temperature	T_{opr}	−40~100	°C

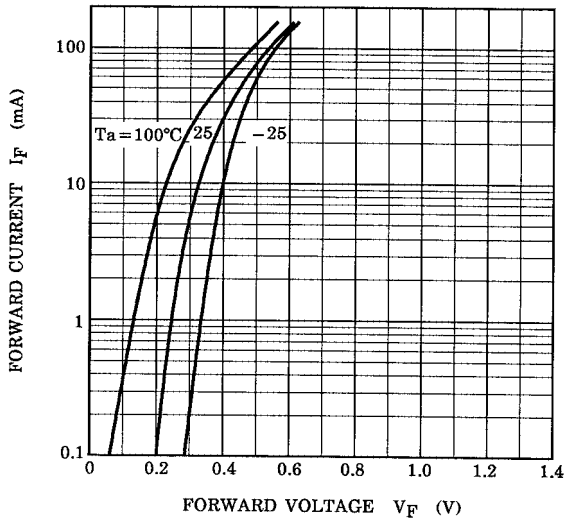
Electrical Characteristics (Ta = 25°C)

Characteristic	Symbol	Test Circuit	Test Condition	Min	Typ.	Max	Unit
Forward voltage	$V_{F\ (1)}$	—	I_F = 1mA	—	0.26	—	V
	$V_{F\ (2)}$	—	I_F = 10mA	—	0.34	—	
	$V_{F\ (3)}$	—	I_F = 100mA	—	0.56	0.70	
Reverse current	$I_{R\ (1)}$	—	V_R = 80V	—	—	5	μA
Total capacitance	C_T	—	V_R = 0, f = 1MHz	—	45	100	pF

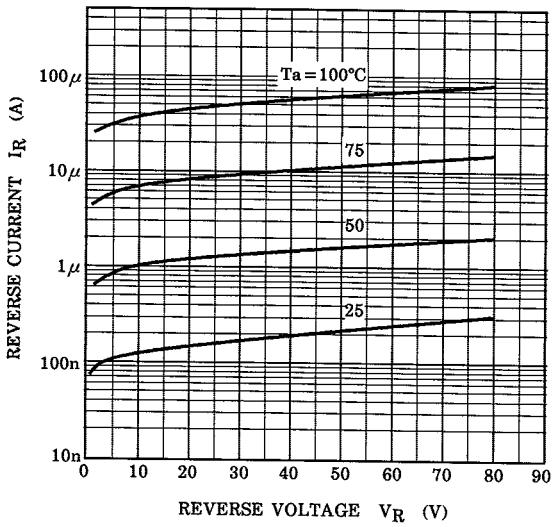
Marking



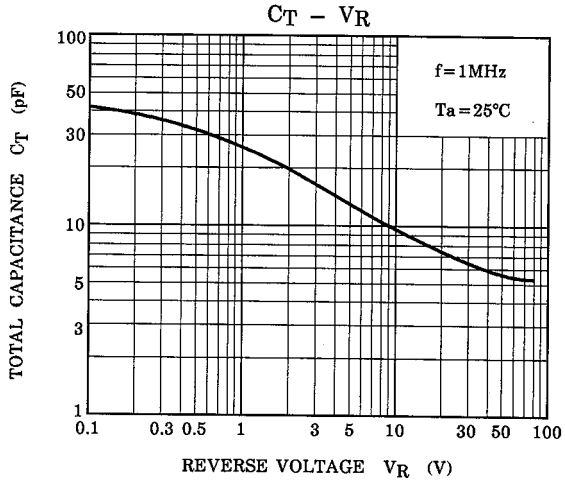
$I_F - V_F$



$I_R - V_R$



$C_T - V_R$



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